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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/018,864

**Applicant(s)**

WALLENIUS, JUKKA

**Examiner**

Dhairya A. Patel

**Art Unit**

2451

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 16 January 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-24 and 31-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24, 31-39 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. This action is responsive to RCE communication filed on 1/16/2009. This amendment has been fully entered and considered.
2. Claims 25-30 are cancelled and claim 31-39 are newly added claims. Therefore Claims 1-39 are subject to examination.

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/16/2009 has been entered.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

***Claims 1-4,7-9,13-16,19-21,31-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer et al. U.S. Patent # 6,693,874 (hereinafter Shaffer1) in view of Hirni et al. U.S. Patent # 6,731,609 (hereinafter Hirni).***

As per claim 1, Shaffer1 teaches a method comprising:

-monitoring at a router, a control signaling message transmitted between the two end-points (column 4 lines 38-44), the control signal message being component-specifically for one of: separate audio (Fig. 2a element 14, 212), video (Fig. 2a element 24,15) and data component streams (Fig. 2a element 40,19), the audio, video and data component streams each forming a separate media component (column 4 lines 38-49); of a plurality of separate media components of a multimedia stream transmitted between the two network end-points (column 4 lines 15-50); **NOTE:** The reference teaches establishing connection between two or more terminals and also formats transmitted video, audio, data signaling and control streams into messages for communication. In Fig. 2, it shows audio, video, data component streams being separate based on the appropriate audio, video and data interfaces.

-notifying control means (Fig. 2a element 18a, 18b) about the separate media components (column 4 lines 20-30);

**NOTE:** Shaffer1 teaches the control layers (control means) are standard H.323 control layers and thus include Q.931 layers and H.245 layers. The H.245 layers which is the media control protocol that allows capability exchange, opening and closing of logical channels and flow control messages. Examiner would like to point out that H.323 control layers includes separate media components as known in the art.

-determining at the routing means that the separate media components are associated with a call between the two network end-points (column 4 lines 33-44)(column 5 lines 1-14, lines 53-64); and **NOTE:** The reference teaches

client 1 initiating a call to client 2 it sends an H.225 setup message which includes audio, video and data components to its primary gatekeeper (routing means) along signaling path. The media channel is then established between two endpoints.

-applying, at in the router, a connection control issued by the control means to the separate media components wherein the connection control enables (column 4 lines 38-49)(column 5 lines 53-64)

-modification of the control signaling messages related to the separate media components (column 4 lines 38-44), and separate relaying of the component specific control signaling messages to a respective one of the separate media components related (column 4 lines 44-49) **NOTE:** The reference clearly states that H.225.0 layer retrieves the received video, audio, data signaling and control streams from messages that have been input from network interfaces, routes the signaling and control information to the appropriate control layer (routing the signaling messages), and routes media streams to the appropriate audio, video and data interfaces (respective one of the separate media components)

Hirni also teaches monitoring at a router a control signaling message transmitted between the network two end-points (Fig. 2b element 43 and 43'), the control signal message being component-specific for one of : separate audio (Fig. 14 element 320), video (Fig. 14 element 322) and data component streams (Fig. 14 element 318), the audio, video and data component streams each forming a separate media component (Fig. 13 element 320,322,318) of a plurality

Art Unit: 2451

of media components of a multimedia stream transmitted between the two network endpoints (column 15 lines 9-14, 21-30, 41-59)

Hirni also teaches notifying, control means about the separate media components (column 17 lines 1-5, lines 16-21, lines 31-45)

Hirni also teaches determining at the routing means that separate media components are associated with the call between the two network end points (column 16 lines 67-67)(column 17 lines 1-21)(column 18 lines 1-22); and

Hirni teaches applying at the router, a connection control issued by the control means to the separate media components, wherein the connection control enables: modification of the control signaling messages (setup messages) related to the separate media components (column 14 lines 4-25)(Column 15 lines 9-20, lines 41-59)

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Hirni's teaching in Shaffer1's teaching to come up connection control enabling modification of control signaling messages related to media components. The motivation for doing so call control provides call setup and control for conferences in which call control coordinates activities among H.245, Q.931, media stream router and media player components for processing (column 14 lines 16-25) by mixing the audio and video streams, thereby synchronization of the audio and video for logical channel that are open (column 15 lines 51-60)

As per claim 2, Shaffer1 and Hirni teaches the method of claim 1, but Shaffer1 further teaches wherein in the monitoring the component-specific

Art Unit: 2451

control signaling message includes receiving, at call control means a media component control-signaling message (column 4 lines 38-45).

**NOTE:** The reference teaches having transmitted video, data, signal and control streams into messages and H.225 layer retrieves each video, audio, data signaling streams from messages and routes the signaling and control information.

As per claim 3, Shaffer1 and Hirni teaches the method of claim 1, but Shaffer1 further teaches wherein the notifying the control comprises:

- sending a message to the control means (column 5 lines 53-58) and

**NOTE:** The reference teaches sending a set up message through its gatekeeper gateway to the client 2, which comprises the control means.

- waiting for a response from the control means (Column 5 lines 59-61).

**NOTE:** The reference teaches in response to the H.225 set up message, the gatekeeper sends a H.225 set up message to the endpoint client 2 and client 2 responds along the signaling path the call set up.

As per claim 4, Shaffer1 and Hirni teaches the method of claim 1, but Shaffer1 further teaches wherein notifying the control means comprises:

- sending a message to the control means (column 5 lines 53-58) and

**NOTE:** The reference teaches sending a set up message through its gatekeeper gateway to the client 2, which comprises the control means.

- waiting for a response from the control means (Column 5 lines 59-61).

**NOTE:** The reference teaches in response to the H.225 set up message, the gatekeeper sends a H.225 set up message to the endpoint client 2 and client 2 responds along the signaling path the call set up.

-receiving the message from the control means (Column 5 lines 59-61)

**NOTE:** The reference teaches in response to the H.225 set up message, the gatekeeper sends a H.225 set up message to the endpoint client 2 and client 2 responds along the signaling path the call set up.

-sending a modified component control signaling message for call control means (column 4 lines 38-49)

As per claim 7, Shaffer1 and Hirni teaches the method of claim 1, but Shaffer1 further teaches wherein notifying the control means comprises:

-sending a message from call control means to the control means (column 5 lines 60-67); and

-waiting for a response from the control means to the call control means (Column 6 lines 1-10)

As per claim 8, Shaffer1 teaches the method of according to claim 2, wherein the media component control signaling message describes opening, closing or modifying a media component (column 4 lines 25-30).

**NOTE:** The reference teaches the control layers using standard H. 323 control layers and H.225 and H.245 control layers which is the media control protocol that allows opening, closing of logical channels, mode preference requests, flow control messages.



Art Unit: 2451

As per claim 9, Shaffer1 teaches the method according to claim 2, wherein the media component control signaling message is in association with a call signaling message (column 5 lines 1-7).

As per claims 13-16,19-21 teaches same limitations as claims 1-4,7-9 respectively, therefore rejected under same basis.

As per claims 31,33,34,35 it teaches same limitations as claims 1,3,4,7 respectively, therefore rejected under same basis.

As per claim 32, Shaffer1 and Hirni teaches the apparatus of claim 31, but Shaffer1, further teaches wherein the router includes call control means and media proxy means (column 1 lines 66-67)(column 2 lines 1-10).

As per claim 36, Shaffer1 and Hirni teaches the apparatus of claim 31, but Shaffer1 further teaches wherein the modification of the control signaling messages related to the separate media components includes modifying a logical channel description (column 4 lines 22-38)

***Claims 5-6,10-12,17-18,22-24,37-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer et al. U.S. Patent # 6,693,874 (hereinafter Shaffer1) in view of Hirni et al. U.S. Patent # 6,731,609 (hereinafter Hirni) further in view of Salama et al. U.S. Patent # 6,584,093 (hereinafter Salama).***

As per claim 5, Shaffer1 and Hirni teaches the method of claim 1, wherein during the monitoring, but fails to teach if the component-specific control signaling message are routed via media proxy means, the method further comprises: the call control means requesting report of media component related

Art Unit: 2451

events from the media proxy means, and the media proxy means informing the call control means of the media component related events. Salama teaches if the specific control signaling message are routed via media proxy means, the method further comprises: the call control means requesting report of media component related events from the media proxy means, and the media proxy means informing the call control means of the media component related events (column 3 lines 1-15, lines 22-44)(column 5 lines 44-67)(column 6 lines 1-6). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer1 and Hirni's teaching to come up with routing signaling message via proxy, call control means requesting report from the media proxy, and media proxy informing the call control means. The motivation doing so would have been to find out if the signaling message was received when it was routed through the proxy therefore call control means requesting report to find out if the signaling message was received correctly.

As per claim 6, Shaffer1 and Hirni teaches the method according to claim 1, but fails to teach the multimedia stream is routed via media proxy means communicating with call control means. Salama teaches the multimedia stream is routed via media proxy means communicating with call control means (column 3 lines 22-44). Salama teaches that all the RTP stream (multimedia streams) are routed via proxy communicating with the gatekeepers and the terminal (call control). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer1

and Hirni's teaching to come up with having multimedia stream being route via a media proxy communicating with call control means. The motivation for doing so would have been so that each ISP which has different policies and which are connected to proxies can forces all incoming H.323 calls to go through these proxies in order to enforce its specific policies on the calls (column 3 lines 47-51).

As per claim 10, Shaffer1, Hirni and Salama teaches the method according to claim 6, but Salama further teaches wherein determining that the separate media components are associated with the call is performed in the media proxy (column 5 lines 50-67)(column 6 lines 1-6). Salama teaches media components associated with the call are received by the proxies and creates the corresponding request to pass to redirect server using media stream. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer1 and Hirni's teaching to come up with determining separate media components are performed in the proxies. The motivation for doing so would have been so that media stream would flow directly between the endpoints and through Internet.

As per claim 11, Shaffer1, Hirni and Salama teaches the method of claim 10, but Shaffer1 further teaches further comprising: issuing a connection control requests from the control means to the call control means (column 5 lines 60-67). Shaffer1 fails to teach issuing the connection control requests from the call control means to the media proxy means. Salama teaches issuing the connection control requests from the call control means to the media proxy means (column 5 lines 50-67)(column 6 lines 1-6) and switching the separate media components

by the media proxy means in accordance with the connection control requests (column 6 lines 6-16). It would have been obvious to one ordinary skill in the art at the time of applicant's invention was made to implement Salama's teaching in Shaffer1 and Hirni's teaching to come up with issuing connection control requests to the media proxy from the call control means. The motivation for doing so would have been so that the media stream would flow directly between the endpoints and through Internet.

As per claim 12, Shaffer1, Hirni and Salama teaches the method according to claim 11, but Shaffer1 further teaches wherein the switching of the separate media components includes switching IP packet payloads carrying a one of the separate media component between an incoming packet stream and an outgoing packet stream (column 5 lines 59-67)(column 6 lines 1-3, lines 44-47)

As per claims 17-18,22-24 teaches same limitations as claims 5-6,10-12 respectively, therefore rejected under same basis.

As per claim 37, Salama teaches the method of claim 5, further teaches wherein reporting the media component related events is performed by one or more detection points based on the specified trigger criteria. (column 20 lines 5-11) **NOTE:** The reference teaches changes in the network configuration will result in a update message being sent into the network indicating certain paths are no longer valid. Receipt of the update message triggers the running o the route selection.

Art Unit: 2451

As per claim 38, Salama teaches the method of claim 37, wherein the specified trigger criteria includes a message type (column 20 lines 5-8). **NOTE:** The reference teaches sending an update message (message type).

As per claim 39, Salama teaches the method of claim 38, wherein the specified trigger criteria include a message origin (column 20 lines 5-11).

### ***Remarks***

Applicant's arguments with respect to claims 1-24,31-39 have been considered but are moot in view of the new ground(s) of rejection.

Examiner would like to point out that Shaffer reference U.S. Patent # 6,693,874 used in the office action is different from the previously cited Shaffer reference U.S. Patent # 6,801,521

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

A). "Method and Apparatus for automatic inter-domain routing of calls" by Salama et al. U.S. Patent # 6,584,093.

B). "System and method for distributed call signaling in telephony-over-LAN networks" by Shaffer et al. U.S. Patent # 6,801,521.

4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dhairya A. Patel whose telephone number is 571-272-5809. The examiner can normally be reached on Monday-Friday 8:00AM-5: 30PM, first Fridays OFF.

Art Unit: 2451

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAP

/John Follansbee/

Supervisory Patent Examiner, Art Unit 2451